

# FOLIO

UNIVERSITY OF ALBERTA  
11 FEBRUARY 1994

ECHO

INSIDE

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- Scheduled Distribution's Leslie Sauter
- Mechanical engineer joins fight against asthma

## GFC, Board of Governors declare state of financial exigency *Move allows units to lay off APOs*

The Board of Governors and General Faculties Council have accepted a Planning and Priorities Committee (PPC) recommendation to declare a state of financial exigency for 1994-95.

The declaration allows unit heads, in accordance with provisions contained in the University-Association of Academic Staff Agreement, to lay off administrative professional officers. The Board and GFC declared financial exigency for the same purpose in 1991-92 and 1992-93.

"Colleagues [and the media] have asked in the past if there is any other reason for declaring financial exigency than article 21 of the APO Agreement," President Paul Davenport informed both governing bodies. "Let me assure you there is no other reason."

"We need the declaration to give unit heads more flexibility with regard to occupied APO positions in meeting their budget reductions. I believe that this increased flexibility is vital to the University in 1994-95, as we seek to protect teaching and research as much as possible in the current difficult context."

Vice-Presidents John McDonald (Academic) and Glenn Harris (Finance and Administration) informed members of PPC that without a declaration of financial exigency, some units would be unable to consider options for implementing budget reductions consistent with departmental and institutional priorities.

"Indeed some may find it impossible to achieve the budget targets set for them and still deliver basic services," the two Vice-Presidents outlined in a 28 January memo.

Article 21.02.2 of the APO Agreement requires the Board of Governors, in the case of

financial exigency, to "indicate the dollar value by which the University's expenses for salaries and benefits of staff members is to be reduced." Harris and Dr McDonald pointed out that this is an extremely difficult forecast to make with any precision given the variety of different factors that influence the staffing decisions units will ultimately make with respect to APOs.

"At this point, we do not expect the dollar value of salaries and benefits associated with

APO terminations to exceed \$1 million in 1994-95," the Vice-Presidents outlined, explaining that that amount would be recommended to the Board.

At GFC last Monday, Anne Fanning (Medicine) spoke against the motion. She said she opposed the motion, not because she didn't think it was an emergency situation, but because she believed that the pain has to be shared. "There has to be a better way and I'm not sure I know what that better way is," she said, adding that people in the campus community are going to have to take less and expect less.

### Quality First now on CWIS

*Quality First* is available on the University of Alberta Campus Wide Information System (CWIS) at the following address:  
cwis.srv.ualberta.ca

A mailing list has been set up on the local Listserv to encourage discussion about the contents of *Quality First*. The mailing list is UAQUAL-L, and instructions for subscribing to it can be found on CWIS in the path, "What's New on Campus/Instructions for Subscribing to a Listserv Mailing List". Mailing address is:  
UAQUAL-L@vm.ucs.ualberta.ca.

### Quality First forum starts at noon

A forum on *Quality First* is being held today from noon to 2 pm in Bernard Snell Hall, Mackenzie Health Sciences Centre.

The forum was called by President Paul Davenport in order that he and the Vice-Presidents could discuss the restructuring proposals contained in the recently released document and respond to questions.

"Similar forums held over the past four years have provided administration with important input about the future direction of this institution, and the Vice-Presidents and I look forward to hearing the University community's views," the President says.

## Dean of Science strongly supports creation of Biological Sciences Department

By Michael Robb

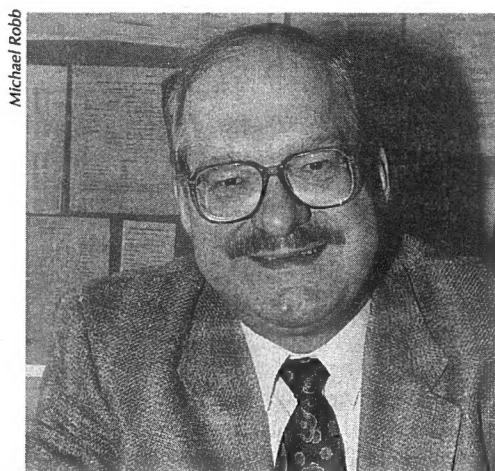
When GFC deals with the *Quality First* proposals to merge five departments into a single Department of Biological Sciences and to combine the Department of Statistics and Applied Probability and the Department of Mathematics, Dean of Science Dick Peter will be one person strongly supporting the proposals.

Science Faculty Council passed the proposals 3 February. "We've been actively discussing these proposals for the past year, and last fall we got down to the hard work of putting the proposals together," he explained earlier this week.

There are some very good reasons for carrying out the mergers, Dean Peter feels. First, there's an economic problem: under the University's budget reduction scenario, small departments will have difficulty functioning, he said. "They tend to be less flexible than larger departments. All of the people and budget get locked up in doing very specific functions. When you lose a person out of a small unit, it's difficult to see anybody else being able to cover that."

Under the selective budget cuts scenario, some of the smaller departments would collapse, he said.

If approved, Genetics, Microbiology, Zoology, Entomology and Botany will form the new Biological Sciences Department and include between 65 and 70 faculty members.



Dean of Science Dick Peter believes the proposed mergers will make the Faculty stronger.

"There are also very good academic reasons for carrying out the mergers," the Dean said. "The development of a common first year for all of the bio-sciences will be very good for students. And most of the second year will be common as well. Then students will be able to branch into specialized programs," he said, pointing out that students will now find it easier to move between programs.

"The direction we're heading in will mean greater transferability for students between U of A and U of C [a university with a large biological sciences department]. We're also very hopeful the colleges will follow this," he said.

Continued on page 4

## Faculty of Dentistry begins fight to stay open

By Elsa Roehr

The Faculty of Dentistry called on its allies as it began its promised fight to stay alive. The Alberta Dental Association (ADA), the Alberta Dental Hygienists' Association and the Dental Students' Association joined the Faculty of Dentistry at a news conference at Edmonton's Westin Hotel on 8 February to protest the proposal to close the Faculty.

All parties attending Tuesday's news conference agreed the Faculty is a valuable community resource for affordable, accessible training and oral health care. They predicted a loss of quality in dental care in Alberta if the Faculty is closed.

Norman Wood, Dean of the Faculty of Dentistry, outlined the impact his Faculty has on Alberta. "We have graduated over 4,000 dentists, almost 1,000 hygienists and 40 orthodontists," said Dr. Wood. "Our Dental School provided low-cost care for many residents of central Alberta (50,000 patients last year). The outreach program at our satellite clinics in the far north of the province logs an additional 10,000 patient visits. Our hospital dental department serves 8,000 yearly, many of whom are medically compromised. We are involved with the oral care of geriatric patients."

Diane Skene-Derksen, president of the Alberta Dental Hygienists' Association, outlined the reasons her group supports the Faculty. "The high quality of dental hygiene programs offered to Albertans and the continuous improvement to the oral health of Albertans is directly related to the excellence

of the Division of Dental Hygiene at the University of Alberta," said Skene-Derksen.

Scott LeBuke, president of the Dental Students' Association, noted that graduates have a 100 percent employment rate and, either directly or indirectly, each employs another 10 Albertans. "We strongly urge the University administration to reconsider its position," said LeBuke.

Bill Hollingshead, ADA president, noted that dental education does not end with high quality graduates. "The Association requires its members to obtain a minimum of 150 hours of Continuing Education courses in each five year reporting period to maintain their licensure in the province," he said. "Last year, over 500 dentists attended a variety of courses provided through the Continuing Education Division of the Faculty."

Dr Wood said the Faculty had offered to cut its budget by 16 percent, more than the 11 percent government called for. Dentistry alumni have offered teaching services at almost no cost. But he saved his strongest comments for what he sees as the University's attitude to research. "*Quality First* means research first and teaching last," charged Dr Wood. *Quality First* is the University of Alberta's plan for promoting excellence through selectivity. The proposal to close the Faculty of Dentistry is one of 15 proposals in *Quality First*. University of Alberta President Paul Davenport announced the plan at a news conference 4 February.

Continued on page 4



# ECHO - Ethics and the Crisis in Healthcare Organization

## A catalyst for action

By Judy Goldsand

A group concerned about ethics and the crisis in healthcare has developed a one year action plan designed to help Albertans become informed participants in the changes now taking place in the healthcare system.

The Ethics and the Crisis in Healthcare Organization (ECHO) wants people to consider what is at stake as the government rapidly forges ahead with change. "Besides fiscal considerations, Albertans need to examine these changes from a values point of view," says Donna Wilson (Nursing), ECHO Project Director.

"Canada is partly what it is today because we have publicly funded healthcare," she says. "Our research has shown that the main change happening is that our healthcare system is shrinking. Hospitals are getting smaller, health units are getting smaller, and there has not been a corresponding shift to meet people's needs through community-based services." Dr Wilson clarified that ECHO members support the idea of offering more healthcare services through community and home-based sectors, but are disturbed that severe cuts are being made to hospital-based care before adequate alternatives are in place.

John Dossetor, Director of Bioethics (Medicine) and a member of ECHO, says the group supports the provincial government's desire to be fiscally responsible and eliminate the deficit, but does not agree that it should be done in the first three and a half years of a five year mandate between provincial elections.

The ECHO group contends that the 10 government-sponsored round tables held last fall, with only one in Calgary and one in Edmonton, did not give Albertans either ad-

equated information or the opportunity for input into the government's proposed healthcare system changes.

ECHO has three main projects:

- 1) to gather information about the organization of healthcare in Canada;
- 2) to involve the public in discussions about planning for healthcare reforms;
- 3) to conduct a Canada-wide study to determine i) whether Canadians wish to maintain the values embodied in the 1984 Canadian Health Act (public administration, comprehensiveness, universality, portability and accessibility); and ii) to determine whether there are changes taking place in Canada that will influence the Act.

### ECHO healthcare forums

The first forum, held 10 February, focused on the need for patient choice and on privati-

zation of healthcare versus Alberta's current publicly funded system.

The second forum is scheduled for 17 February, 7 to 9:30 pm, in Bernard Snell Hall, Mackenzie Health Sciences Centre. A panel will address the topic, "Providing Care for People of All Ages: Possible or Impossible?" (see TALKS, page 6).

A 3 March panel, also from 7 to 9:30 pm in Snell Hall, will discuss "Shifting Healthcare to the Home: A Women's Issue?"

Each forum will feature presentation of the issues by experts for one hour, followed by small and large group audience discussion. Admission is free, but advance tickets are required. Tickets are available at the University Hospitals information desks.

For more information on the forums, call 492-1644.

## ECHO conference encourages public participation Future of healthcare the focal point

Members of the Ethics and the Crisis in Healthcare Organization (ECHO) are bringing together professionals and members of the public to address "Values, Ethics and Vision in Health Care."

The conference will take place at Bernard Snell Hall, University of Alberta Hospitals, on 25 March, (7:30 am to 9:30 pm), 26 March (9 am to 4:30 pm), and 27 March (9 am to 1 pm).

Professionals and members of the public interested in the future of healthcare are welcome. There is no registration fee or admission charge.

ECHO invites anyone wishing to present a paper or lead a discussion to contact them by 15 February. Possible presentation topics

include: the principles of the Canada Health Act, issues affecting women and children, issues affecting the disabled and the elderly, paying for the current healthcare system, changing the healthcare system, rationing healthcare, the spiritual dimension of healthcare, and the role of ethics in healthcare planning and decision making.

The conference is planned by the Bioethic Centre at the University of Alberta and the Catholic Bioethics Centre at Saint Joseph's College. For more information, call Doris Kieser, Conference Chair, or John O'Callahan, Director of Saint Joseph's Bioethics Centre at 439-2422; or Donna Wilson, ECHO Project Director, at 492-5574.

## FOLIO

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### DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 30 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Contact Public Affairs for sizes, rates and other particulars.

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## Merged Faculties still looking for new name Ag/Forestry/Home Ec won't be called Faculty of Natural Resources, GFC decides

General Faculties Council has turned down a proposal to rename the merged Faculties of Agriculture and Forestry and Home Economics.

GFC voted last Monday 62-23 against the proposed name, the Faculty of Natural Resources.

An earlier proposal to rename the merged Faculties the Faculty of Environmental and Life Sciences was not approved by GFC, a majority of whose members felt the proposed new name did not accurately represent what the Faculty offered. Others felt the name implied that the Faculty was the only place students could pursue environmental studies.

After that proposal was defeated, the Faculty was told to consult with the Vice-President (Academic), Deans' Council and the broader University community. A small ad

hoc committee was struck to review the situation. It came up with two proposed names: Faculty of Applied Ecology and Faculty of Natural Resources.

At a meeting late last year, Faculty Council members agreed to put the two names to a mail ballot. There were 151 eligible voters, and 113 ballots were cast. Sixty percent favoured the name Faculty of Natural Resources, while 34 percent favoured the name Faculty of Applied Ecology.

At GFC last Monday, many members said the proposed name simply didn't describe accurately the merged Faculties.

BJ Busch (Libraries) questioned whether some former Home Economics departments actually belonged in a Faculty of Natural Resources. "I think of oil and gas when I think of natural resources," she said, echoing several others' sentiments.

## Keep those survey forms coming

*Folio* thanks the many people who have replied to its reader survey, and reminds those who have not that they have until Tuesday, 15 February, to do so.

As is noted on the questionnaire, "Your opinions are important to us as we work to continuously improve *Folio*."

A copy of the questionnaire was enclosed in the 28 January issue of *Folio*. Additional copies are available from the Office of Public Affairs, 400 Athabasca Hall, telephone 492-2325. Completed questionnaires should be returned to: Office of Public Affairs, 400 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8.

## BOARD OF GOVERNORS

## BRIEFS



### Early retirement package for nonacs approved

The Board of Governors, at its regular meeting last Friday, approved an early retirement incentive plan for nonacademic staff. The Board authorized taking up to \$4.9 million from the operating reserve to finance buy-out costs incurred in 1994-95 for both nonacademic and academic staff.

### Biomira rep appointed

The Board recommended that Bill Grace represent the University of Alberta on the Biomira board of directors.

### Music Honours program dropped

The Board approved a proposal from the Faculty of Arts to eliminate the Bachelor of Music (Honours) degree program.

## Presidential Search Committee on schedule

The Presidential Search Committee is developing a profile of the qualities that candidates will require to meet the many challenges facing the University.

The committee is also developing documents dealing with matters that will face the new president, Chancellor and Interim Board Chair Sandy Mactaggart told members of the Board of Governors at their regular monthly meeting last Friday.

The committee has met four times and the Chancellor has met recently with some potential consultants. As a result of a request, the committee secretary has received a number of proposals from consultants. The committee will review these and make decisions by early March.

The Chancellor indicated that committee members believe the presidential search process to be on schedule.

## CURRENTS



### Political Science book sale

The Department of Political Science book sale will be held 2 and 3 March from 9 am to 4 pm in HUB Mall, north end. Bargains from 10 cents to \$5.

### Professional Development Day: Library and Information Studies

"Libraries: Changing, Growing, Enduring" is the theme for the School of Library and Information Studies' 8th annual Professional Development Day, 4 March. The program will include presentations by David Jenkinson, Dean Frey, Keith Turnbull, and students of the School. There will also be a panel of practitioners discussing distance librarianship.

The PD Day will be held in the Bibliography Room of the Humanities and Social Science Library (Rutherford North) from 10 am to 4 pm with a reception to follow in Henderson Hall. For more information, contact Claudette Cloutier at 492-4578.



## The stamp of professionalism

By Janet Resta

Leslie Sauter would like to help you save money. What's more, she'd be happy to wade through the vagueness of Canada Post's policies and rate charts to do so.

Part of her job as Supervisor of Scheduled Distribution is to liaise between University departments and the various agents that handle the institution's mail. The current economic climate has forced all of us to rethink our spending habits and, says Sauter, Canada Post is no exception. She would be happy to explain what she calls some "inventive" moves to reduce the cost of large or bulk mailings and courier services.

Every morning at 7:30, Sauter is witness to the tide of incoming mail that arrives at the Materials Management Building. The first campus run then delivers 90 percent of the load. Each day, as she supervises mail sortation and metering, courier deliveries, route schedules and priority post services, Sauter sees some 20,000 pieces of incoming and outgoing mail make its way through various channels.

After 13 years with Distribution, Sauter is very well acquainted with the campus as well as a good number of the people her department serves. She's even learned some foreign terminology. She still recalls the day some years ago when a damaged package from Quebec labelled "crapeaux" arrived and then broke open, leaving its amphibious contents to hop around the office.

Other challenges of the job include re-routing incorrectly addressed or labelled



Leslie Sauter and the staff in Scheduled Distribution handle the mail with care and precision.

pieces, such as campus mail marked simply from "Tom" to "Jerry", and dealing with long-weekend backlogs of deliveries. She even retrieves letters from the pool of metered mail after the addressor realizes a mistake has been made. Sauter enjoys meeting the demands of a time-sensitive job and cites the teamwork of a good crew as the reason behind the smooth running of Distribution.

Sauter's busy and tightly scheduled workday is followed by time at home with her

husband Bob and five-year-old son, Scott.

The Sauters enjoy outdoor sports year round and Leslie has recently begun to try her hand at wine making.

Sauter gladly extends her hospitality to anyone who wishes to visit the distribution centre or discuss a better way to spend their postal budget. Anyone is welcome to call or, perhaps more appropriately, to drop her a line.

## 'Designer' milk is McCalla Professor's objective

The research that John Kennelly is conducting as a 1993-94 McCalla Professor is aimed at improving the nutritional quality of milk and developing new markets for milk fat by producing milk with a specified balance of fatty acids.

According to Dr Kennelly (Animal Science), preliminary work has shown that there's "considerable potential to systematically alter the fatty acid composition of cow milk through nutrition of the animal."

Dr Kennelly says his research group's ability to change the composition of milk fat by dietary means is due to the fact that milk fat is, in part, derived from dietary long-chain fatty acids. Through dietary inclusion of appropriate fatty acids, the researchers want to produce milk fat with a composition which meets the needs of niche markets such as improved infant formulas or those seeking milk with a high concentration of unsaturated fatty acids.

To identify an effective combination of dietary fat sources, a series of experiments will be conducted. These will involve the feeding of various lipids, for example, canola oil and linseed oil, to lactating dairy cows. The combination of fats that produce the desired milk fatty acid profile would be "protected" from bacterial biohydrogenation in the rumen, and the protected lipid supplements would then be fed to dairy cows to produce the appropriate "designer" milk.

## Teacher shows her appreciation for the education she received here

### Anne Carmichael Scholarship in Elementary Education awarded

Eighty-nine year old Anne Carmichael says she received a great education at the University of Alberta. To show her appreciation, she recently made a donation to her alma mater, establishing the Anne Carmichael Scholarship in Elementary Education.

Last week, the former Edmonton Public Schools teacher returned to campus for a luncheon at which she met the first recipient of the \$2,400 annual scholarship, Laureen Thompson, of Bracken, Saskatchewan.

"I had the privilege of meeting a great many interesting and creative people at the University," says Carmichael, who began her teaching career in 1928 and earned her BEd in 1949 and MEd in 1954.

She taught in Parkdale, Highlands, Westmount, Norwood and Allendale before going on to work in a supervisory role for the school board. For a brief period, she taught as a sessional here at the University and also served on the Senate.

The daughter of Scottish immigrants, Carmichael began her schooling in Scotland, later moving with her family to an industrial area of England. When the opportunity arose to start a new life in the Canadian West on land offered by the Canadian Pacific Railway,



Former Edmonton Public Schools teacher Anne Carmichael meets Laureen Thompson, the recipient of this year's Anne Carmichael Scholarship in Elementary Education.

the family emigrated, establishing a farm near Sedgewick.

This being the 1930s, the weather was bad and the crops were anemic. But the family endured.

More 50 years later, Carmichael says she considers herself lucky to be alive and to have led such an interesting and fulfilling life.

"I'm simply paying back some of those benefits to the University," she says.

## Annual fair places accent on alternative instructional methods

Instructional Fair '94 will again provide interesting examples of alternative instructional methods using technology, says David Mappin, Director of the Faculty of Education's Instructional Technology Centre.

Communications and information technologies for teaching and learning will be showcased at the Fair, which will take place 15 and 16 March, 1 to 4 pm each day, in B-64 Education South.

Innovative ways of using technology in lectures, small group work, simulations, and individual study using computers, videodiscs, videotape, and a variety of computer software will be featured by departments University-wide.

The following are some of the more than 20 projects which help make up Instructional Fair '94:

- Key Teaching Behaviors in Postsecondary Education: Exemplars of Effective Teaching;
- Inquiry-based Learning Using Digital Video Interactive (DVI) - The Jean Talon Project;
- Qualitative Research Techniques Using HyperQual;
- Foreign Language Quiz Program;
- Computers in the Teaching of English Literature;
- Physics Lessons Using Amiga;
- Pre-clinical AuthorWare Module.

Wherever possible, an instructor who has worked with the materials will be present to discuss the applications. The same selection of displays will be offered each afternoon so visitors can pick the afternoon that is most convenient.

### RETIREMENT PLANNING SEMINARS FOR ACADEMIC STAFF

18-21 April 1994

The Office of the Vice-President (Academic) and the Association of Academic Staff of the University of Alberta (AAS:UA) invite members of the AAS:UA and their spouses to attend a two-day retirement planning seminar. Each of the two seminars will address keys to successful planning, financial planning and lifestyle considerations.

#### Seminar 1

18 April, 2:30 - 5:00 and 7:00 - 10:00

19 April, 8:30 - noon and 1:00 - 4:30

#### Seminar 2

20 April, 2:30 - 5:00 and 7:00 - 10:00

21 April, 8:30 - noon and 1:00 - 4:30

The seminars will be held in the Stollery Centre, 5th Floor, Business Building. There is no charge; coffee and lunches will be provided.

Enrollment is limited and will be on a first-come, first-served basis. If you are interested in attending, call Lori Callahan at 492-5321. Deadline for registration is 10 March 1994.



# University's international dimensions will be in line with strategic plan

It's not too late if you want to make a submission to the Senate's Task Force on International Dimensions of the University.

Task Force Chair Zaheer Lakhani said it was his hope that the group's report would contain practical and meaningful recommendations for enhancing the University's international activities and profile.

"All of us on the task force have been astounded at the enormous amount of international activity going on on campus," he said.

Audra Hollingshead, a Senate member who heads the on-campus subgroup of the task force, said her group has met with many departments and found that generally people agree with the statements on international activities made in the University's strategic plan, *Degrees of Freedom*.

The plan recommends that the University review and develop a proposal for coordinating and organizing an international orientation at the U of A.

Deni Lorieau, who leads another of the Task Force's subgroups, said many people he's met with have said the University should be clearer about its international role. International Centre Education Abroad Coordinator Barry Tonge reiterated that viewpoint: "The University has to come out and say this [an international orientation] is important." A lot of students haven't considered how important a more internationally focused education will become, he added.

Several Task Force members who were on hand at the International Week session last week heard a variety of other suggestions from students and staff about the University's international role and activities, including:

- Incorporating more international content in more courses;
- Being more thorough in integrating foreign students into the life of the campus;
- Taking greater advantage of the opportunities that already exist;
- Considering human rights issues before establishing relationships with institutions in other countries;
- Learning more from foreign students about international issues; and,
- Maintaining development education funding.

Chancellor Sandy Mactaggart said the phrase "global village" is no longer just a buzzword. The advantages the developed world used to have simply aren't there anymore. "We have to understand that and get ready for it."

## Visitor brings perspective on Balkan situation

**Liudmila Kuzmitcheva is Stuart Ramsay Tompkins Visiting Professor**

Liudmila Vasilievna Kuzmitcheva is the fifth Stuart Ramsay Tompkins Visiting Professor in the Departments of Slavic and East European Studies and History.

Professor Kuzmitcheva arrived in Edmonton 1 January from Moscow State University where she teaches in the Department of History of Southern and Western Slavs.

While here, her teaching duties include instruction in a course offered by the Department of History titled "Russia and the Balkans: Russian Relations with Serbia 1804-1914" and in INTD 499, "The End of the Russian Empire and the Forming of the Soviet System," offered by the Department of Slavic and East European Studies.

Professor Kuzmitcheva recently gave a seminar on Yugoslavia, and two more such seminars are scheduled: "Bosnia and Herzegovina: Past and Present" (2 March) and "The Establishment of the New Independent States in the Balkans: Problems of Co-existence." Both seminars will take place 16 March from 3:30 to 5 pm in 436 Arts Building.

Born in the city of Ufa and educated in Moscow, Professor Kuzmitcheva's doctoral dissertation on Serbo-Russian relations during the crisis of the 1870s won her recognition as one of the prominent young scholars working on Balkan history in the modern era.

Professor Kuzmitcheva has published widely on Serbo-Russian relations in the 19th and 20th centuries, and on the history of liberalism in Eastern Europe.

Faculty members and students wishing to contact Professor Kuzmitcheva are asked to call the office of the Slavic and East European Studies Department at 492-3537. Her office is located in 422-A Arts Building; her office hours are: Tuesday, 1-2 pm, and Friday, 3:30-4:30 pm.

## Rutter continues to build international reputation in Quaternary geology

Nat Rutter's achievements in Quaternary geology are rock-solid, so to speak.

Publication some 20 years ago of the first comprehensive report on the glacial (Quaternary) history of the Canadian Rocky Mountains launched a career that has been punctuated by fieldwork in a number of countries, the development of the first amino acid dating laboratory in Canada, election to the Royal Society of Canada, and most, recently, appointment as a 1993-94 Killam Annual Professor.

The Rockies report has formed the framework for virtually all of his succeeding work on glacial history.

Taking a few minutes out from NSERC-related paperwork (he's chairing the NSERC Grants Selection Committee on Environmental Earth Sciences), Dr Rutter describes the Quaternary as "a time interval that includes everything."

"There's no limit, most everything we walk on is Quaternary." Not surprisingly, the subjects he teaches include glacial geology, Quaternary environments, environmental geology, and remote sensing.

Popular belief holds that the Quaternary, which includes the Recent and Pleistocene epochs, began about 1.7 million years ago, but Dr Rutter and numerous other researchers are challenging that belief, contending that a major climatic break—an overall cooling—some 2.5 million years ago precipitated the Quaternary.

It was the opportunity to do original research (in the Rockies) that brought Dr Rutter here from Stanford University. He earned his PhD in 1965 and was a research scientist with the Geological Survey of Canada, Calgary.



Nat Rutter consults a Quaternary science journal. He is the founder and editor-in-chief of Quaternary International.

His participation in one of the largest Quaternary mapping projects ever undertaken by the Survey—the Mackenzie Valley Transportation Corridor—was instrumental in his appointment as Environmental Adviser to the National Energy Board.

Shortly after joining the University of Alberta's Department of Geology in 1975, Dr Rutter developed the first amino acid dating laboratory in Canada. "We are pioneers in testing fossil wood as a dating material, and continue to analyze a variety of materials for many world scientists, as well as for my own projects."

Election in 1987 to the presidency of the International Union for Quaternary Research (INQUA), the leading organization for Quaternary science, has been of great academic benefit to Dr Rutter. He was the first Canadian to hold that office and no sooner had his four-year term begun than research and teaching-oriented offers started pouring in. He was Invited Scientist at Torun University in Poland, the Council for Scientific and Industrial Research, South Africa, the Academia Sinica in Beijing, and the Patagonian Research Center, in Puerto Madryn, Argentina; lectured at the University

## Bio-sciences Department

Continued from page 1

The graduate programs will also be able to flourish more; there will be more research cooperation and collaboration, he said. "It's inevitable that if you're within a department, you function within those boundaries. So we're trying to knock some of those boundaries down."

While Dean Peter believes the mergers will make the Faculty stronger, he doesn't believe the budget cuts will help matters. The Faculty has been asked to plan for a cut of 12 percent over three years, five percent of that this year. Dean Peter said, "I understand we have to do this, but this year in Science we will be cutting 17 academic staff and 16.5 support staff, reducing the teaching assistants budget by \$50,000, and cutting the faculty staff travel budget."

"We had a graduate teaching assistants scholarship program, in part to help with the rising fees of graduate students ... that's gone. We were building some base budget for sessionals, and that's gone in our budget cuts. Our ability to hire sessionals will be greatly effected."

Meeting the 1995-96 and 1996-97 reductions will amount to about 35 academic staff and 25 support staff. Asked how the Faculty could do that, Dr Peter responded: "I don't know." Attrition won't likely do it. This year there will be but five mandatory retirements in the Faculty. The Dean, however, is working on the development of an early retirement proposal.

Pointing out that the average class size in 100- and 200-level Science courses is 96 students, he predicted that that number would rise.

At this time, Dean Peter said, the Faculty doesn't exactly know what the impact of the changes in the education model, if approved, will have on the Faculty of Science. "Science is already a feeder Faculty for a number of other Faculties, and we have a very heavy demand for our 100- and 200-level courses. In 1993-94, for example, the Faculty had close to 55,000 preliminary course registrations, 30,000 of which were in the 100-level courses."

"I'm concerned that with the changes in the education model and also with business, that we will become much more of a Faculty that teaches only 100- and 200-level courses. That will be very unfortunate."

"We really have a dilemma: How do we maintain our accessibility without having our research suffer?"

of London; and became a member of the INQUA Commission on the Quaternary of South America.

In the past five years, he and a small team have identified 37 major climatic cycles in China during the Quaternary (that's in the last 2.5 million years not 1.7 million years, he points out) and explained the orbital forcing functions involved.

A colleague, Thomas Moslow, says that Dr Rutter's research on the Quaternary geologic record within the loess deposits of China and Mongolia is "likely to be recognized as one of the greatest contributions made to Quaternary geology this decade, and perhaps ever."

## Dentistry news conference

Continued from page 1

According to *Quality First*, western Canada cannot afford to support four dental schools. Education through the Faculty of Dentistry costs \$16,900 per Weighted Student Unit (WSU), compared with \$5,000 per WSU for Arts, \$6,300 for Science and \$12,600 for Medicine. *Quality First* says it is possible to obtain student positions at universities outside the province. The University will work

with the Government of Alberta to provide dentists and hygienists for the province through agreements with other universities or, in the case of hygienists, with other Alberta institutions. As one option, the University could fund students to train elsewhere if they agree to practice in Alberta.

Drs Hollingshead and Wood refuted this strategy. Faculty supporters also questioned

the timing of the proposal, especially since President Davenport is stepping down this year. "Perhaps the future President of the University of Alberta may well want a Faculty of Dentistry, a stronger one, a more viable one," said Dr Hollingshead.

"At a time when the training of other disciplines such as engineering, medicine, law and education are duplicated or even tripli-

cated throughout this province, we find the closure of the only Dental School in Alberta to be a very dangerous move," said Dr Hollingshead. He urged Albertans to write or phone their MLAs, Premier Klein, President Davenport, or members of the Board of Governors to voice their concerns regarding the proposed closure.



## An introductory text with a twist ...

### U of A/Queen's teachers devise innovative way of presenting criminology

By Michael Robb

Undergraduate students know the pattern all too well: First the instructor will teach the various theories in the field. Second, methods. Third, findings. And then—if there's time—there will be some discussion about what it all means.

The students are generally appreciative, but they'll say, "Okay, now how does this all fit together?" This is particularly true when you go through the theories, explains Sociology Professor Les Kennedy, and, of course, you generally have to cover all the major theories in a discipline in introductory courses.

"But you get the impression that often students don't know how these explanations fit with one another, and the theories are often treated in the books as separate entities," explains Dr Kennedy, who has taught the introductory criminology course for many years. "There's no unifying theme."

But Dr Kennedy and his Queen's University colleague, Vince Sacco, a former U of A graduate student, have tackled the issue by writing a text, *The Criminal Event: An Introduc-*



Sociology Professor Les Kennedy (pictured) and Queen's University colleague Vince Sacco have a new approach for teaching introductory criminology.

*tion to Criminology*. Their book uses the criminal event as a unifying theme—what happened before, during and after a crime occurs.

"This may seem a little simplistic, but no one has actually looked at it this way before," Dr Kennedy says.

Here's how it works. Criminologists and people generally ask why someone would want to be an offender. So students learn about motivational and choice theories. Makes sense.

"But when the crime actually takes place, you're not as concerned about motivational theory as you are about what actually happened," Dr Kennedy points out. Now different theories are taught to explain the situation. And what happens afterwards? Well, he explains, that's when readers consider deterrence theory. "We hope that when the students finish the book, they'll be exposed to all the major ideas."

This approach is a little like an anatomy overlay. All of the theories are laid on the sequence of events. "We spend so much time in criminology and in the public talking about the motivation of offenders. Why would they have done that?"

Yet we spend so little time understanding what happened during the crime that would help explain why they did it," Dr Kennedy says.

The authors then looked at criminal events in the context of family, work and leisure. "We discovered that when we looked at crime in each of these three domains, we covered most crimes," he says, pointing out, for

example, that domestic assault takes place in the context of the family.

"What we're trying to do is get over the segmentation and try to integrate all of this." Both authors reject the idea that a pet theory can explain all of crime.

Their approach has been tested this year in the classroom by Dr Kennedy. "It makes sense to students...and it shows them that there's nothing wrong with having more than one explanation about what's going on," he says. "We want to show that students don't have to pick just one theory, there are commonalities, and that these theories aren't mutually exclusive."

Furthermore, theories to explain crime tend to be developed in a specific context, are taken out of context and applied more generally. What Drs Kennedy and Sacco do in their book is put those theories back in a context.

The book will be released in late February by Nelson Canada. It'll be sold for \$29.95 and marketed in community colleges and universities across the country. Drs Kennedy and Sacco are also editing a crime in Canada series.

## Mechanical engineer working with physicians to improve asthmatic technology

### Warren Finlay brings fluid dynamics expertise to the study

By Michael Robb

If you're an asthma sufferer, you know that not all nebulizers are created equal. In fact, some of these apparatuses, used for producing a fine spray or mist in which drugs are dispensed to asthma sufferers, work remarkably better than others.

Pediatric pulmonologist Peter Zuberbuhler, a specialist in the treatment of asthma, explained the problem to Civil Engineering professor Alla Elwi and asked whether someone in the Faculty of Engineering might be able to solve it.

"So they sent him to me and that's how we got started," explains Warren Finlay (Mechanical Engineering), who, along with PhD graduate student Kevin Stapleton, is now testing the effectiveness of nebulizers.

Hospitals use different kinds. "But what we've found is that one nebulizer will dispense two to three times more drug as a different brand. So if you're a doctor, and you know this, you'll want to use the better brand. Currently, doctors simply don't have the information and no one has done the testing," says the fluid dynamics expert.

"We were fed up with patients saying that the nebulizers weren't working properly," says Dr Zuberbuhler.

"He [Dr Zuberbuhler] came up with the problem, and we're trying to come up with some answers," says Dr Finlay. "We can tell him which nebulizers are going to get considerably more drug into a patient. The other aspect is cost. You can now reduce the dose in half if you know a particular nebulizer dispenses twice as much drug to a patient. You can give the patient half as much drug and still get the same effect." A new drug for

cystic fibrosis, for example, costs about \$35 for a single nebule, so patients who use more effective nebulizers can cut their drug costs significantly, says Dr Zuberbuhler.

Surprisingly, there's been very little research on just how much drug is getting into a patient, Dr Finlay says, partly because there's a lot of variability, making it very difficult to develop a standardized test. Everyone's lungs are different and the nebulizers are different.

Dr Finlay and Stapleton have also found that the humidity in the room in which the asthma patient is inhaling the drug can have a large effect on how much drug gets into the lungs.

The interdisciplinary group has considerable financial support. Drug companies such as Genentech Canada Inc, Glaxo Canada Inc, and Boehringer Ingelheim Inc are funding the research. DeVILBISS Health Care Inc, a manufacturer of compressors and nebulizers, has also contributed some money, along with the Natural Sciences and Engineering Research Council. ARS VitalAire, a respiratory supply company, has supplied Dr Finlay with nebulizers, and the Alberta Asthma Centre has been instrumental in establishing the interdisciplinary nature of the work.

Dr Finlay's first reaction to Dr Zuberbuhler's overture was: "This isn't my area. I don't know anything about this." But he agreed to give it some attention and sent Stapleton off to the Library to do a literature search on the problem. Nothing turned up.

"Once we knew that, we started looking at the actual physics involved and it turns out that a lot of it does involve fluid dynamics," he explains. Interdisciplinary work has its costs, however. "We've had to do a lot of

learning, especially in the area of aerosol physics. There was a pretty good learning curve." But they realized the principles of fluid dynamics applied once the drug is in the mouth and lungs. It's taken a year and a half to develop the methodology to test nebulizers.

Much of the group's work can be applied to people whose lungs aren't too seriously damaged by disease. "What we'd like to do now is to modify this procedure, so we can try and predict which is the best nebulizer for somebody who is barely breathing or in the late stages of cystic fibrosis," Dr Finlay says.

He plans to modify the model to deal with severely diseased lungs. Paul Man (Pulmonary Medicine) will use Dr Finlay's findings to develop clinical trials, expected to get under way in several months.

Like millions of Canadians, Dr Finlay knows someone who has asthma. His father has the disease. "I understand the seriousness of the disease," he says. But he never dreamed he would be working with pulmonologists in the fight against the disease. "It's a wonderful example of interdisciplinary work, but it was so serendipitous."



Photo Services

Mechanical Engineering professor Warren Finlay tries out a typical nebulizer used to dispense drugs to people with diseased lungs.

## McCalla Lecture addresses violence in the lives of disabled people

McCalla Professor Richard Sobsey (Educational Psychology) will present his McCalla Lecture 18 February at 3 pm in 2-115 Education North.

He will speak about violence in the lives of people with disabilities.

The Faculty of Education is inviting people to the symposium and reception in honour of its McCalla Professor and its undergraduate teaching award recipients: Moira Juliebo, John Mitchell and David Wangler.

A wine and cheese reception will follow in the 4th floor lounge, Education North.



## ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

15 February, 4 pm

Katrina Trevor, assistant professor, Center for Molecular Biology, Wayne State University, Detroit, "Structural Behaviors of Intermediate Filaments in Simple Epithelial Cell Types." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

## ANTHROPOLOGY

18 February, 3 pm

David Scheffel, assistant professor, University College of the Cariboo, "Investigative Anthropology in Central and Eastern Europe." 14-28 Tory Building.

## ART AND DESIGN

17 February, 5 pm

Richard Yates will present a slide lecture on his own work in printmaking, drawing and installation media. Concurrent exhibition at the Edmonton Art Gallery. 2-20 Fine Arts Building.

17 February, 7 pm

Chris Ozubko, program chair, School of Art, University of Washington, will talk about his development as a graphic designer. 2-20 Fine Arts Building.

## BIOETHICS

15 February, 12:30 pm

Cheryl Kee and Teresa Tsang, "Informed Choice: A Challenge for Healthcare Professionals." 2F1.04 Mackenzie Health Sciences Centre.

## CANADIAN INSTITUTE OF UKRAINIAN STUDIES

11 February, 7:30 pm

Iaroslav Hlynsky, Institute of Applied Problems of Mechanics and Mathematics, Lviv, "Teaching Computer Science in Ukrainian Schools: Old Problems and New Methods" (in Ukrainian). Heritage Lounge, Athabasca Hall.

## CHEMICAL ENGINEERING

17 February, 3:30 pm

Philippe A Tanguy, NSERC/PAPRICAN Industrial Research Chair, UREPI, Ecole Polytechnique, Montreal, "Recent Developments in Viscous Mixing." 342 Chemical-Mineral Engineering Building.

## ECHO HEALTHCARE FORUM

17 February, 7 pm

Paul Byrne, Allen Dobbs, Jane Drummond, Ruth Elliott, John O'Callaghan and Hazel Wilson, "Providing Care for People of All Ages: Possible or Impossible?" Admission is free but tickets are required. Tickets available from the University of Alberta Hospitals information desks. Information: 492-1644. Bernard Snell Hall, Mackenzie Health Sciences Centre.

## EDMONTON ART GALLERY

24 February, 7:30 pm

Opening of the slide lecture series, "Claude Monet and the Impressionist Era." Speakers include the U of A's Bridget Elliott ("Across the Channel: The Influence of French Impressionism on British Artists") and Lelde Muehlenbachs "Claude Monet: His Works and Influence on Modern Art". Fee: \$55 for four lectures or \$16 for individual lectures. Call 422-6223.

## ENGLISH

16 February, 4 pm

Sara Stambaugh, Dale Wilkie and Bill Connor, "Influences: A Series of Panels on What Makes Our Work Tick." L-3 Humanities Centre.

17 February, 3:30 pm

Helen Buss, Department of English, University of Calgary, "A Feminist Revision of New Historicism to Give Fuller Readings of

# TALKS



Women's Private Writing." 6-40 Humanities Centre.

## ENTOMOLOGY

17 February, 4 pm

Marie-Pascale Rivet, "How do Flies Taste? Processing of Gustatory Information by the Suboesophageal Ganglion of the Flesh Fly *Neobelliera* (=Sarcophaga) *bullata* (Parker) (Diptera: Sarcophagidae)." TB-W1 Tory Breezeway.

## FOREST SCIENCE

14 February, noon

AM Gill, Commonwealth Scientific and Industrial Research Organization, Canberra, Australia, "Fire Ecology in Outback Australia." 2099 Dentistry-Pharmacy Centre.

## GENETICS AND PLANT SCIENCE

17 February, 4 pm

Yves Poirier, DOE-Plant Research Laboratory, Michigan State University, "Genetic Analysis of Phosphate Transport in *Arabidopsis thaliana*." M-145 Biological Sciences Centre.

## GEOGRAPHY

11 February, 3 pm

Harvey Crone, director of Forecasting and Policy Development, City of Edmonton Planning and Development Department, "Issues in Planning the City of Edmonton." 3-36 Tory Building.

## GERMANIC LANGUAGES

11 February, 3 pm

Michael Graves, "The Dialect of the Wessobrun Prayer." 326 Arts Building.

## HUMAN ECOLOGY

15 February, 3:30 pm

John Godel, "Sunlight, Supplements and Lifestyle: Effect on Northern Infants." 207A Law Centre.

## INSTITUTE OF GEOPHYSICS, METEOROLOGY AND SPACE PHYSICS

24 February, 2 pm

Jacek Majorowicz, Northern Geothermal, "Underground Record of Changing Climate in Western Canada." P-631 Physical Building.

## LIMNOLOGY AND FISHERIES DISCUSSION GROUP

17 February, 12:30 pm

Brenda Miskimmin, "Toxaphene in Fish and Sediments 30 Years After Application to Lakes." G-116 Biological Sciences Building.

## MARKETING AND ECONOMIC ANALYSIS

11 February, 3 pm

James D Hess, Washington University, "Price Discrimination Through a Distribution Channel: Theory and Evidence." Stollery Centre, 5-26 Business Building.

## NURSING

14 February, noon

Diane Buchanan, "Depression and Suicide in Older Adults." 3-114 Clinical Sciences Building.

## NUTRITION AND METABOLISM RESEARCH SEMINAR/GASTROENTEROLOGY ROUNDS

14 February, 12:30 pm

David Silk, Central Middlesex Hospital, London, UK, "Small Intestinal and Colonic Responses to Enteral Feeding in Man; Relevance to the Pathogenesis of Enteral Feeding and Related Diarrhoea." Sponsor: Alberta Heritage Foundation for Medical Research. 2F1.04 Mackenzie Health Sciences Centre.

## PERINATAL RESEARCH CENTRE

15 February, noon

Sandy Davidge, postdoctoral fellow, Magee-Womens Research Institute, University of Pittsburgh, "Role of the Endothelium in the Maternal Cardiovascular Response to Pregnancy." 2J4.02 Mackenzie Health Sciences Centre.

22 February, noon

Toshiyuki Itoi, "Energy Substrate Use in the Immature Heart." 2J4.02 Mackenzie Health Sciences Centre.

## PETER JACYK CENTRE FOR UKRAINIAN HISTORICAL RESEARCH

17 February, 3:30 pm

Andrii Deshchytia, "The Emergence of Independent Ukraine and its Influence on Stability in Eastern Europe." 352 Athabasca Hall.

## PLANT SCIENCE

15 February, 12:30 pm

Mitch de Beus, "The Regulation and Control of Rubisco." 1-06 Agriculture-Forestry Centre.

## RURAL ECONOMY

14 February, 3:15 pm

Janaki R Alavalapati, "Effect of Timber Harvest Regulations on the Economy of British Columbia." 519 General Services Building.

## SLAVIC AND EAST EUROPEAN STUDIES

16 February, 3 pm

Olga Mladenova, formerly of the Osteuropa-Institut, Freie Universität, Berlin, "Viticulture and Wine-Making on the Balkans: An Ethnolinguistic Approach to Multilingual Area." 436 Arts Building.

## SOCIETY OF EDMONTON DEMOGRAPHERS

23 February, noon

Alice Leung, Alberta Family and Social Services, "Illiteracy and Innumeracy in Canada and Edmonton." Wild Rose Room, Canada Place, 9700 Jasper Avenue.

## SOCIOLOGY

16 February, noon

Susan McDaniel, "Canadian Families: Connecting Past and Future." 5-15 Tory Building.

## WOMEN'S STUDIES

16 February, 4 pm

Carmen Largaespada, "Women in Families: The Social Construction of Motherhood in Nicaragua." Senate Chamber, Arts Building.


## ZOOLOGY

11 February, 3:30 pm

Jay D Hair, US National Wildlife Federation, "Biodiversity: Beyond the Books." M-149 Biological Sciences Centre.

18 February, 3:30 pm

Kostas Iatrou, University of Calgary, "Silkmoth Choriogenesis: A Paradigm for Long-Term Developmental Programmes and Regulatory Cascades Underlying Terminal Cell Differentiation." M-149 Biological Sciences Centre.

 This symbol denotes environmentally-related seminars/ events. If you wish to have an environmentally-related event listed in this manner, please contact: The Environmental Research and Studies Centre, 492-6659.

# LAURELS



- Forest Science Professor **Peter Murphy** has been elected president of the Forest History Society. He is also president of the Canadian Institute of Forestry. The Forest History Society, founded in 1946 and affiliated with Duke University, advances historical understanding of humankind's interaction with the forest environment through programs in research, publication, service, library, and archival collecting.
- On a recent trip to Beijing, **NR Morgenstern**, University Professor of Civil Engineering, and **PK Robertson**, Professor of Civil Engineering, were awarded the title Honorary Professor by the Central Research Institute of Building and Construction, Ministry of Metallurgical Industry. The ceremony coincided with the completion of a five-year research and technology transfer project on the seismic safety of tailings dams, funded by the International Development Research Centre, Ottawa. On the same trip, the Chinese Institute of Water Conservancy and Hydroelectric Power Research conferred on Dr Morgenstern the title of Honorary Fellow in

recognition of his international contributions to Geotechnical Engineering and to the training of senior members of the Institute.

- Doris Badir**, Professor Emeritus of Home Economics, has received an International Year of the Family Patron award for her work promoting IYF as president of the International Federation of Home Economics. The award was presented at the World Non Governmental Organization Forum, in Valletta, Malta, launching the International Year of the Family. More than 1,000 participants from 100 countries met to give special attention to strengthening families. Professor Badir, former Dean of the Faculty of Home Economics, is immediate past president of IFHE.

- Violet Archer** was named Woman of the Year for 1993 by the American Biographical Institute, and International Woman of the Year for 1992-93 by the International Biographical Centre of Cambridge, England. The Professor Emeritus of Music's "Children Singing - A Set of Six Songs for Young Singers with Piano Accompaniment" will be published by Gordon V Thompson Music of Toronto.



# EVENTS

## EXHIBITIONS

### EXTENSION CENTRE GALLERY

Until 18 March

"The Poster, communication design"—an exhibition of posters featuring advertising, music, women's issues, and the environment. Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 8:30 am to 4:30 pm; Saturday, 9 am to noon. Information: 492-3034. 2-54 University Extension Centre.

### FAB GALLERY

Until 20 February

"David Cantine—Colour Still Lives." Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Saturday, Monday and statutory holidays, closed. 1-1 Fine Arts Building.

### McMULLEN GALLERY

Until 27 February

"Pluralism in Alberta Prints 1970-1985"—from the collection of the Alberta Foundation for the Arts. Curated by Bente Roed. Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm, evenings subject to availability of volunteers. Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

## FILMS

### GERMANIC LANGUAGES

22 February, 7:15 pm

"Der Fluch" (1988), German with English subtitles. 141 Arts Building.

## MUSIC

### DEPARTMENT OF MUSIC

11 February, 8 pm

Visiting Artists Recital—Elizabeth Dubberly, soprano, and Stephen Dubberly, piano. Convocation Hall.

11 February, noon

Visiting Artist Series Masterclass—Elizabeth Dubberly, soprano, and Stephen Dubberly, piano. Convocation Hall.

16 February, 12:10 pm

Noon-Hour Organ Recital. Convocation Hall.

17 February, 8 pm

Master of Music Recital—Michael Coderre, baritone. Convocation Hall.

20 February, 3 pm

A Benefit Faculty Recital—Marek Jablonski, piano. Admission: \$10/adults, \$5/students and seniors. Convocation Hall.

### EDMONTON CHAMBER MUSIC SOCIETY

16 and 23 February, 8 pm

"The Talich Quartet"—the complete Beethoven Quartets, Part 2. Tickets available at the door. Information: 433-4532. Convocation Hall.

## SPORTS

### BASKETBALL

11 and 12 February, 6:30 pm

Pandas vs Saskatchewan. Main Gym.

11 and 12 February, 8:15 pm

Bears vs Saskatchewan. Main Gym.

### HOCKEY

11 and 12 February, 7:30 pm

Bears vs Saskatchewan. Clare Drake Arena.

### VOLLEYBALL

18 February, 6:30 pm

Pandas vs Victoria. Main Gym.

18 February, 8 pm

Bears vs Victoria. Main Gym.

19 February, 6:30 pm

Bears vs Victoria. Main Gym.

19 February, 8 pm

Pandas vs Victoria. Main Gym.

# ADS

## ACCOMMODATIONS AVAILABLE

VICTORIA PROPERTIES - Knowledgeable, trustworthy realtor with Edmonton references will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. (604) 595-3200, Lois Dutton, Re/Max ports west, Victoria, B.C.

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. University enquiries welcome, 492-7044.

RENT - Strathearn Drive, executive two storey, fully furnished. 1 March to 31 July 1994, \$1,000/month. Jacuzzi, hardwood floors, renovated throughout. City view. Western Relocation, 434-4629.

RENT - Ottewell, renovated two storey, four bedroom with delightful sunroom off living room. Formal dining room. Yard has fruit trees, large deck. Partially or furnished. Western Relocation, 434-4629.

SALE - Charming two storey, Old Strathcona. Ron, 439-3300.

RENT - May - July, fully furnished three bedroom house 1 km south of University. Character, garden. \$850/month. 492-5731, 438-7886.

RENT - Old Strathcona, three bedroom furnished, \$750, or two bedroom unfurnished, \$650, main floor suite. Hardwood floors, utilities included. Mature persons preferred. Available immediately. 434-6287.

SALE - Grandview, lovely bungalow, open floor plan facing the backyard. Great location. \$178,000. Ed Lastiwka, Royal LePage Realty, 446-3800.

RENT - University area, large, bright two bedroom apartment/condo. 83 Avenue 110 Street. \$860/month includes parking, utilities, laundry. Available immediately. Phone 487-6989.

RENT - Old Strathcona, 9938 83 Avenue. Semi-bungalow, two bedroom suite on main floor. Double garage, newly renovated hardwood flooring, four appliances. \$700, utilities included. 484-4047.

SALE - Windsor Park, overlooking Edinboro Park sits this elegant, four bedroom, two storey. Master bedroom with ensuite, fireplace, family room, large deck. \$269,800. 9239 118 Street. Joan, Re/Max Realty. 433-9025, 438-7000.

SALE - Inspiring workspace. Perfect studio for sculptors, woodworkers, potters, etc. New. 625' attached to beautiful 1,500' bungalow. 4.5 acres, seven minutes SE Beaumont beside 14-acre greenbelt. \$204,000. 986-1826.

RENT - Close to University, the Marquis new highrise condo. 11th floor, one bedroom, one bathroom, beautiful view. Tennis, pool, saunas, exercise room. \$600 includes utilities, parking. 437-7004.

RENT - July 1994 - August 1995. Furnished bungalow, quiet street, Windsor Park. Two bedrooms, offices, bathrooms, large living/family rooms. Greenhouse. Garage. Nonsmokers, no pets. Sabbatical leave. \$1,200/month plus utilities. 492-4635.

RENT - Large, renovated two bedroom suite in duplex. Suitable for professional. Parking included. Walk to University. No pets, nonsmoker, adults only. Rent \$400 if one, \$500 if two. Georgina, 433-1479.

More ads on page 8

## THEATRE

### STUDIO THEATRE

Until 19 February, 8 pm; 17 February, 12:30 pm

"Tis Pity She's A Whore" by John Ford.

Directed by Barbara Coleman. Information and tickets: 492-2495. Myer Horowitz Theatre.

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**SALE** - Lansdowne. Sparkling clean, vacant, numerous improvements, three bedrooms plus den/study or fourth family room, deck. New listing. Pat vonBorstel, Spencer Realty, 435-0808.

**RENT** - South Garneau, five blocks University. Quiet. Lovingly renovated two bedroom home (nonsmoking). Oak flooring, contemporary gas fireplace, deck, appliances. Ultimate double garage! \$950. 439-4406.

**RENT** - Furnished three bedroom bungalow, Castledowns. Finished basement, double garage, two fireplaces. Possession date open and flexible. \$800 monthly. Phone 456-8864.

**BED & BREAKFAST** - Near University, has rooms available for short-term stays. Beautiful heritage home, daily/weekly/monthly rates. 482-1096, 439-7669.

**SALE** - Belgravia gem. Superbly upgraded and very well maintained three bedroom bungalow. Hardwood, oak kitchen, fireplace, finished basement, new double garage. In best part of district near river valley. 436-4865.

#### ACCOMMODATIONS WANTED

**HOUSESITTER** - Mature grad available late April. Call BettyAnne, 489-3809, to leave message.

**VISITING PROFESSOR** from Norway seeks private, inexpensive, furnished accommodation, September through December 1994. Please contact Dr Lubell, Anthropology, 492-2368.

#### GOODS FOR SALE

**CASH PAID FOR APPLIANCES** - 432-0272.

#### SERVICES

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